

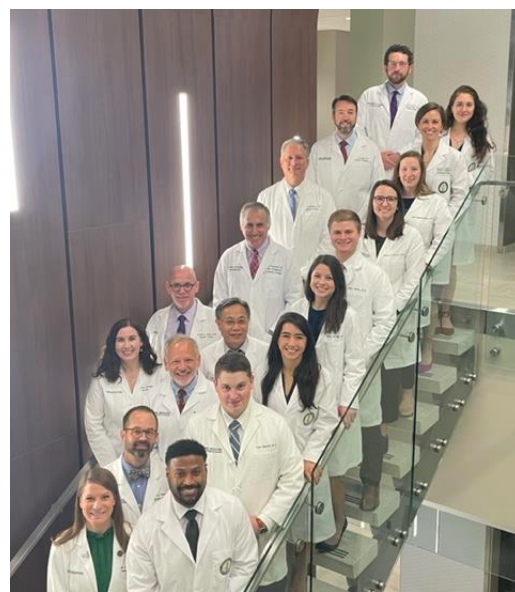
UAB Vascular Surgery Virtual Sub-Internship 2022

Welcome to UAB Vascular Surgery! We are excited to have you join us virtually during these unprecedented times and hope that you will enjoy getting to know our program here at UAB. We have planned a one-week virtual sub-internship that will include access to our weekly zoom morning conferences, virtual meetings with our faculty for case-based discussions, virtual simulation and journal club.

UAB Vascular Surgery Tradition and Background

UAB Vascular Surgery graduated its first vascular fellow in 2001 and is now in the 13th year of the Vascular Integrated Pathway. Our program has always been known for the breadth of clinical experience and operative volume in complex endovascular and open surgery.

Since the program was established, we have trained twenty-four fellows and seven residents that are now practicing vascular surgeons all over the country spanning academic to private practices. We currently recruit one fellow and one resident per year with an optional 1-2 years of academic development time/vascular research.



Meet the Team @ uab.edu/surgery

The Division and Practice Overview

UAB Vascular Surgery and Endovascular Therapy is a division within the Department of Surgery led by Dr. Adam Beck as the Divisional Director. The division includes six vascular surgeons, three podiatric surgeons, one basic scientist, one instructor who serves as the division's statistician, six advanced practice providers, five RN clinical care coordinators, eight vascular ultrasound techs, three research staff, three administrative assistants and an outstanding residency coordinator.



The practice locations include UAB University Hospital, the Outpatient Vein Center at UAB Highlands, and Birmingham VA Hospital. Our outpatient clinics include UAB Highlands, UAB Gardendale, UAB Whitaker, The Kirklin Clinic, and Cooper Green.

General Information

The virtual sub-internship is designed for 4th-year medical students interested in vascular and endovascular surgery. The sub-internship will be held from Oct. 2 - 7, 2022.



PROGRAM DIRECTOR

Benjamin J. Pearce, M.D.

Associate Program Director, Vascular Surgery
Integrated Residency & Fellowship Program
William D. Jordan, Jr. Endowed Professor in Vascular
Surgery and Endovascular Surgery

ASSOCIATE PROGRAM DIRECTORS



Mark A. Patterson, M.D.

Professor
Chief of Vascular Surgery, Birmingham
Veterans Administration Hospital
Associate Program Director, Vascular
Surgery, Integrated Residency &
Fellowship Program



Danielle C. Sutzko, M.D.

Assistant Professor
Associate Program Director, Vascular
Surgery Integrated Residency

ADMINISTRATIVE & PROGRAM COORDINATOR



Sherry Evans

Administrative Supervisor
Program Coordinator, Vascular Surgery Integrated
Residency & Fellowship Program

Schedule | All times in CDT

SUNDAY OCT. 2, 2022

- 5 p.m. Introductions, Drs. Pearce, Patterson & Sutzko
- 5:30 p.m. Meet the Trainees

MONDAY OCT. 3, 2022

- 7 a.m. Vascular Conference
- 8 a.m. Welcome to UAB & B'ham
- 9 a.m. Break
- 10 a.m. Podiatry Topic, Dr. Unger
 - Article: Management of the diabetic foot by Hingorani et al.
 - Article: Inpatient Management of Diabetic Foot Disorders by Wukich et al.
- 11 a.m. Break
- 12 p.m. Simulation, Drs. Pearce & Sutzko
- 4 p.m. Carotid Disease, Dr. Spangler
 - Pre-reading: Atlas of Vascular Surgery & Endovascular Therapy: Anatomy and Technique by Elliott L. Chaikof & Richard P. Cambria - Chapter 6, Carotid Endarterectomy

TUESDAY OCT. 4, 2022

- 7 a.m. UAB Surgery Grand Rounds
- 8:30 a.m. OR case with Dr. Beck - F/BEVAR
 - Pre-reading/viewing: Atlas of Vascular Surgery & Endovascular Therapy: Anatomy and Technique by Elliot L. Chaikof & Richard P. Cambria: Chapter 19 - Endovascular Repair of the Aortic Arch & Thoracoabdominal Aorta
- 4 p.m. Acute Limb Ischemia, Dr. Sutzko
 - Pre-reading: Rutherford's Vascular Surgery, 9th Edition by Anton N. Sidawy, Bruce A. Perler - Chapter 100 - Evaluation & Diagnosis of ALI and 101 - Treatment of ALI

WEDNESDAY OCT. 5, 2022

- 7 a.m. Aortic Disease, Dr. Beck
 - Pre-reading: Atlas of Vascular Surgery & Endovascular Therapy: Anatomy and Technique by Elliot L. Chaikof & Richard P. Cambria: Chapter 18 - Direct Surgical Repair of Aneurysms of the Thoracic & Thoracoabdominal Aorta & Chapter 19 - Endovascular Repair of the Aortic Arch & Thoracoabdominal Aorta
- 8 a.m. Mesenteric Disease, Dr. Sutzko
 - Pre-reading: Atlas of Vascular Surgery & Endovascular Therapy: Anatomy and Technique by Elliot L. Chaikof & Richard P. Cambria: Chapter 40 - Direct Surgical Repair for Celiac Axis & Superior Mesenteric Artery Occlusive Disease and Chapter 41 - Endovascular Treatment of Occlusive Superior Mesenteric Artery Disease

Schedule | All times in CDT

WEDNESDAY OCT. 5, 2022

9 a.m. Examination of the Diabetic Foot, Dr. Haverstock

THURSDAY OCT. 6, 2022

7 a.m. Vascular Lab Conference: Peripheral Vascular Duplex, Dr. Sutzko

8 a.m. Venous Disease, Dr. Passman

Pre-reading: Rutherford's Vascular Surgery, 9th Edition by Anton N. Sidawy, Bruce A. Perler: Chapter 154 - Varicose Veins: Surgical Treatment & Chapter 161 -Iliocaval Venous Obstruction: Endovascular Treatment

3 p.m. Peripheral Arterial Disease, Dr. Patterson

Pre-reading: Atlas of Vascular Surgery & Endovascular Therapy: Anatomy & Technique by Elliot L. Chaikof & Richard P. Cambria: Chapter 44 - Open Surgical Bypass of Femoral-Popliteal Arterial Occlusive Disease & Chapter 45 - Direct Surgical Repair of Tibial-Peroneal Arterial Occlusive Disease

4 p.m. Angiosomes & Treating the Diabetic Foot Ulcer, Dr. Harris

Pre-reading: Angiosome-targeted infrapopliteal Endovascular Revascularization for Treatment of Diabetic Foot Ulcers; PCIM: 23219512 DOI: 10.1016/j.jvs.2021.07.057. Angiosomes & Wound Care in the Diabetic Foot; PMID: 20682415; DOI10.1016/j.fcl.2010.04.003

FRIDAY OCT. 7, 2022

7 a.m. Vascular Research (VERT) Conference, Dr. Spangler

8 a.m. Vascular Trauma, Dr. Spangler

Pre-reading: Rutherford's Vascular Surgery, 9th Edition by Anton N. Sidawy, Bruce A. Perler: Chapter 182 Thoracic Vascular Trauma & Chapter 183 Vascular Trauma: Abdomen & Chapter 184 Vascular Trauma: Extremity

3 p.m. Interview Session & Life as a Vascular Surgery Resident, Dr. Banks

4 p.m. Wrap Up, Dr. Pearce

Resources & Suggested Readings and Videos

Handbook of Patient Care in Vascular Disease by Todd Rasmussen

- Good overview of clinical vascular surgery for medical students
- Compact and fits in your white coat pocket; great to read for clinic or during down-time
- Login info: <https://bookshelf.vitalsource.com/#/>
Username: stanfordvascsubi@gmail.com
Password: Arterial2!

Advanced Surgical Recall by Lorne Blackbourne

- The vascular surgery chapter is short (~20 pages), includes the most commonly asked questions in vascular surgery cases
- Also covers the most commonly asked questions in general surgery cases

Atlas of Vascular Surgery and Endovascular Therapy: Anatomy and Technique by Elliot L. Chaikof and Richard P. Cambria

- Review Chapters 1-5, which are quite short, but provide an excellent overview of endovascular procedures

Rutherford's Vascular Surgery, 9th Edition by Anton N. Sidawy, Bruce A. Perler:

- THE vascular surgery textbook
- Often available online through university libraries

Vascular and Endovascular Surgery E-book by Wesley S. Moore, "Anatomy and Surgical Exposure of Vascular System" chapter by Jeffrey Ballard:

- 20-page detailed summary of most common vascular exposures— not as detailed as Valentine's but good for quick review before the case

Anatomic Exposures in Vascular Surgery by Gary G. Wind and R. James Valentine

- This is a great source for reviewing relevant anatomy for upcoming cases

Gore's Vascular/Endovascular Surgery Combat Manual

- Good "pocket book" for reviewing major concepts between the cases or during down-time on the floor
- Available online (PDF) <https://www.goremedical.com/combat-manual>

Landmark Vascular Surgery Clinical Trials

- <https://vimeopro.com/user11267838/didactic-lectures/video/228501446>

Resources & Suggested Readings and Videos

Landmark Vascular Surgery Clinical Trials

- <https://vimeopro.com/user11267838/didactic-lectures/video/228501446>
- 30 min lecture by Dr. Orion summarizing the major carotid, AAA, bypass vs endo and thrombolysis trials (would watch multiple times)
- Please see the “Essential Articles in General Surgery” chapter on important vascular papers - Know the size at which we repair aneurysms in different parts of the body and why (rupture vs thrombosis vs embolization)

Society for Vascular Surgery Guidelines

- Lastly, for advanced learning, SVS has guidelines for AAA, CLI, Wifl score, blunt traumatic thoracic aortic injury, and management of LSA available at the links below, as well as through the SVS app (Apple/Android app store) - <https://vascular.org/research-quality/guidelines-and-reporting-standards/clinical-practice-guidelines>
- CLTI - <https://www.sciencedirect.com/science/article/abs/pii/S0741521419303210>
- AAA - [https://www.jvascsurg.org/article/S0741-5214\(17\)32369-8/fulltext](https://www.jvascsurg.org/article/S0741-5214(17)32369-8/fulltext)
- PAD – asymptomatic & claudication - <https://www.jvascsurg.org/article/S0741-5214%2814%2902284-8/fulltext>
- Wifl score - <https://www.jvascsurg.org/article/S0741-5214%2813%2901515-2/fulltext>
- Blunt thoracic - <https://www.jvascsurg.org/article/S0741-5214%2810%2901924-5/fulltext>
- Management of LSA - <https://www.jvascsurg.org/article/S0741-5214%2809%2901823-0/fulltext>
- Reporting standards for type B aortic dissections - [https://www.jvascsurg.org/article/S0741-5214\(19\)32649-7/pdf](https://www.jvascsurg.org/article/S0741-5214(19)32649-7/pdf)
- Descending Thoracic Aorta Diseases - [https://www.ejves.com/article/S1078-5884\(16\)30178-2/fulltext](https://www.ejves.com/article/S1078-5884(16)30178-2/fulltext)

Clinical Scenarios in Vascular Surgery by Gilbert R. Upchurch Jr. and Peter K. Henke

- More advanced textbook, helpful for oral board preparation

Audible Bleeding Podcasts

- THE vascular surgery podcast, based out of the Vascular Surgery Fellowship Program at NewYork Presbyterian
- Features interviews from leaders in the field, VSITE exam review, and updates in guidelines/clinical practice
- <https://www.audiblebleeding.com/>

Video Resources

- Suturing
<https://www.youtube.com/channel/UC-0GEHkDCHhl7ankr6HjWfw>
- End to side anastomosis and patch angioplasty
<https://www.youtube.com/playlist?list=PLIBTkGxZozxo5SQdkBkrOtD8TBoh kQun>
- Subcuticular stitch for skin closures
<https://www.youtube.com/watch?v=IkX5zMyCV1s&t=283s>
- Sheath Removal
<https://www.youtube.com/watch?v=dSyZWCDG7U8>
- Ultrasound-Guided Femoral Access
<https://www.youtube.com/watch?v=45Rs90giA8E>
- Transradial Access
<https://www.youtube.com/watch?v=8PNzEcvtinkl>
- Direct Puncture of Vascular Lesions
<https://www.youtube.com/watch?v=F-POH4lpX0I>
- Ultrasound-Guided Jugular Access
https://www.youtube.com/watch?v=UvPc2c_hE9g
- Carotid Subclavian Bypass with TEVAR
<https://www.youtube.com/watch?v=0SXQwJG4LDI>
- Carotid-Carotid Subclavian Bypass
<https://www.youtube.com/watch?v=wzHmnlUvGdw>
- Carotid Endarterectomy (Full)
<https://www.youtube.com/watch?v=AWXCpRJAN8M>
- Carotid Endarterectomy Part 1
<https://www.youtube.com/watch?v=wZ8PzhwmSXQ>
- Carotid Endarterectomy Part 2
https://www.youtube.com/watch?v=E_wWpRKBy4w
- Aorta to Right Carotid Bypass
https://www.youtube.com/watch?v=7LlrcSM7_lc
- Temporal Artery Biopsy
<https://www.youtube.com/watch?v=zzYRhSfVSBk>
- Open Repair of Carotid Artery Pseudoaneurysm
https://www.youtube.com/watch?v=xuvCsWb6_YE
- Superficial Femoral Artery to Dorsalis Pedis Artery Bypass
<https://www.youtube.com/watch?v=QXjsre0kP4k>

Video Resources

- Left Common Femoral Artery to Anterior Tibial Artery Bypass using PTFE Graft
<https://www.youtube.com/watch?v=xG2aF-vNSr4>
- Left Femoral to Peroneal Bypass by Reversed Ipsilateral Great Saphenous Vein
<https://www.youtube.com/watch?v=z9T9DZB6C0g>
- Posterior Approach Right Popliteal Artery Aneurysm Repair
<https://www.youtube.com/watch?v=gaGcnYtKWhk>
- Popliteal Aneurysm and Fistula
https://www.youtube.com/watch?v=hXV_fGcjdI4
- Obturator Bypass
<https://www.youtube.com/watch?v=G4FF-9JOV90>
- Aorto Iliac PTFE Graft (Cadaver)
<https://www.youtube.com/watch?v=2RQb29QhFRQ>
- Exposing Right Iliac Artery for a Distal Anastomosis: Aortoiliac Bypass
<https://www.youtube.com/watch?v=NmODldojDas>
- Exposing Left Iliac Artery for a Distal Anastomosis: Aortoiliac Bypass
<https://www.youtube.com/watch?v=XEJbPA6Hdvg>
- Open Aorta: Completed Aortoiliac
<https://www.youtube.com/watch?v=GnG0WoOLvHY>
- Right Visceral Rotation
<https://www.youtube.com/watch?v=DPxiDYzJwcY>
- Left Visceral Rotation
<https://www.youtube.com/watch?v=KVuMiAuw5zc>
- Aorta to Superior
https://www.youtube.com/watch?v=xPNDY2ki_Z0
Aortic Exposure at Hiatus (Cadaver)
https://www.youtube.com/watch?v=dK_KeRv4DKo
- SMA Exposure, Thromboembolism, Patch Angioplasty
and Retrograde Stenting
<https://www.youtube.com/watch?v=4vyx9LmJCkA>
- SMA Aneurysm - Open Surgical Repair
<https://www.youtube.com/watch?v=OuK4hgofDjQ>
- SMA Stenting
<https://www.youtube.com/watch?v=-4PXsMu8d9M>
- Iliac to SMA Bypass Ringed ePTFE
<https://www.youtube.com/watch?v=g9F0BIXvFeU>
- SMA Embolectomy
https://www.youtube.com/watch?v=5Bv_8xPTgPU

Video Resources

- Open Repair of Renal Artery Aneurysm in Solitary Kidney
<https://www.youtube.com/watch?v=PF5RYg6V4Gk>
- TEVAR of Contained Rupture Descending Thoracic Aorta
<https://www.youtube.com/watch?v=Hlhez-m-a9E4>
- Thoracic Endovascular Repair of Rapidly Expanding False Lumen of Chronic Type III Aortic Dissection
https://www.youtube.com/watch?v=jGkLTCVEQ_I
- Ascending Aortic Debranching
<https://www.youtube.com/watch?v=y76-6SsCA-E>
- Endovascular Treatment of Iatrogenic Subclavian Arteriovenous Fistula
<https://www.youtube.com/watch?v=J0CvTwlrQuU>
- Thoracoabdominal Exposure (Cavader)
https://www.youtube.com/watch?v=HEL0o7dbM_g
- Open IVC Filter Removal
<https://www.youtube.com/watch?v=GCz2L-hgHp0>
- Left Iliofemoral DVT Thrombectomy Using INARI ClotTrievers
<https://www.youtube.com/watch?v=NjIQZuBkFAQ>
- Left Innominate Vein Bypass
<https://www.youtube.com/watch?v=U4mpl1W7w4M>
- Endovenous Laser Treatment (EVLT) of the Greater Saphenous Vein
<https://www.youtube.com/watch?v=WGW8BUKp76g>
- Mechanochemical Endovenous Ablation (MOCA) of the Greater Saphenous Vein
<https://www.youtube.com/watch?v=cKzT1k3lb8k>
- SVC Replacement
<https://www.youtube.com/watch?v=2IVauaz5DY0>
- Leiomyosarcoma of IVC
<https://www.youtube.com/watch?v=yZQKtldcG-8>
- Thoracic Outlet Syndrome First Rib Resection Using an Infraclavicular Anterior Approach
<https://www.youtube.com/watch?v=cEEpEC3yTew>
- Creation of Radiocephalic Fistula
<https://www.youtube.com/watch?v=JGJzKRkrzYg>
- Right Upper Extremity Infected Arteriovenous Fistula Excision
<https://www.youtube.com/watch?v=eBBb2rgkjtE>
- Right Upper Extremity Arteriovenous Fistula Revision
<https://www.youtube.com/watch?v=CNEPhctwY28>

Video Resources

- Left Upper Extremity Brachio basilic Arteriovenous Fistula Creation
https://www.youtube.com/watch?v=Rn5dO8_-8eo
- Arteriovenous Fistula (AVF) Superficialization
<https://www.youtube.com/watch?v=G7VG1NgVg-8>
- Hero Graft Placement
<https://www.youtube.com/watch?v=soSHOvSgzlY>
- Tunneled Dialysis Catheter Placement
<https://www.youtube.com/watch?v=nSe4Gceg1lw>
- Tunneled Dialysis Catheter Removal After Inadvertent Placement in Carotid
<https://www.youtube.com/watch?v=MWptbmuzEXQ>
- Cephalic Arch Reconstruction
<https://www.youtube.com/watch?v=2uSJYa8l9VE>
- Left Cephalic Vein Turndown
<https://www.youtube.com/watch?v=pfvxvJdcte8>